

# Global Energy Policy Research | GEPR

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GEPR?? - Friday, December 3rd, 2021

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Francesco Scatena/iStock

### 6. IEA????????

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表-4 日本の電源構成（実績・2030年エネルギー基本計画・2050年想定）

電源	日本の電源構成 %			参考) 世界の電源 %
	2019年 実績	2030年 基本計画	2050年 筆者想定	2050年 IEAロードマップ
水力	8.4	10	10	12
地熱	0.3	1	1	1
バイオ	2.6	5	5	5
風力	0.7	6	17	35
集光型太陽熱	-	-	-	2
太陽光	6.6	15	63	33
原子力	6.1	20~22		8
水素・アンモニア	0.0	1	2	2
化石燃料	75.3	41	2	2

出所：日本の2030年はエネルギー基本計画の審議会資料、世界の2050年はIEAによる排出量ネットゼロの世界ロードマップによる。

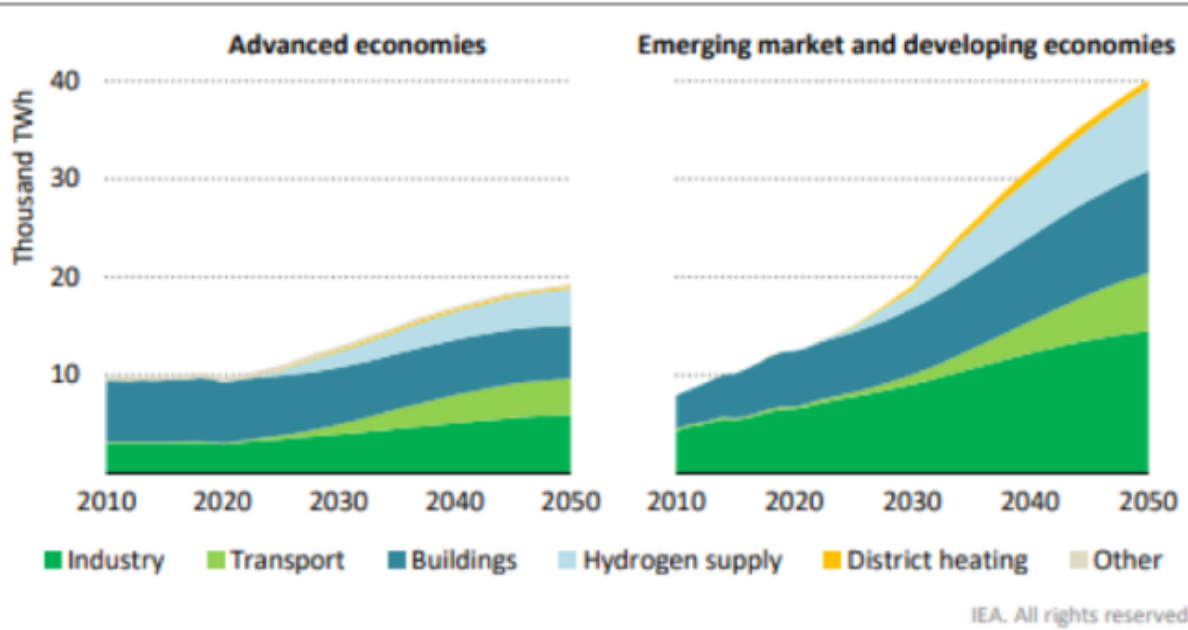
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3.9??IEA????????????????????????????????????????????????????????????????????????????????  
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**Figure 3.9** ▶ Electricity demand by sector and regional grouping in the NZE



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*Electrification of end-uses and hydrogen production raise electricity demand worldwide, with a further boost to expand services in emerging market and developing economies*

Worldwide electricity demand is projected to increase from 2019 to 2050. In 2019, global electricity demand was 22.4 TWh, and it is projected to reach 100 TWh by 2050. This growth is driven by electrification of end-uses and hydrogen production, which will raise electricity demand worldwide, with a further boost to expand services in emerging market and developing economies.

By 2050, electricity demand is projected to reach 15% of global primary energy supply. This is a significant increase from the current level of around 20%.

The growth in electricity demand is driven by electrification of end-uses and hydrogen production. In 1970, electricity demand was 1.7 TWh, and it is projected to reach 100 TWh by 2050.

By 2050, electricity demand is projected to reach 13% of global primary energy supply. This is a significant increase from the current level of around 20%.

- Electrification of end-uses
- Hydrogen production (20% of demand)
- District heating (40% of demand)

**8. Summary**

The global energy system is undergoing a major transformation. The growth in electricity demand is driven by electrification of end-uses and hydrogen production. In 2021, global electricity demand was 25.1 TWh, and it is projected to reach 100 TWh by 2050.

CO<sub>2</sub> emissions are projected to decrease significantly. In 2021, global CO<sub>2</sub> emissions were 36.4 Gt, and they are projected to reach 1.9 Gt by 2050. LNG emissions are projected to reach 1.2 Gt by 2050.

Global electricity demand is projected to reach 100 TWh by 2050. This is a significant increase from the current level of around 20%.

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